

JOURNAL J. Biol. Chem. 267 (34), 24575-24584 (1992)  
 PUBMED [1339443](#)  
 REMARK NUCLEOTIDE SEQUENCE [GENOMIC DNA].  
 Erratum: [J Biol Chem 1993 Aug 25;268(24):18398]  
 REFERENCE 3 (residues 1 to 359)  
 AUTHORS Cameron, H.S., Szczepaniak, D. and Weston, B.W.  
 TITLE Expression of human chromosome 19p alpha(1,3)-fucosyltransferase genes in normal tissues. Alternative splicing, polyadenylation, and isoforms  
 JOURNAL J. Biol. Chem. 270 (34), 20112-20122 (1995)  
 PUBMED [7650030](#)  
 REMARK NUCLEOTIDE SEQUENCE [MRNA].  
 TISSUE=Kidney  
 COMMENT On or before Jul 18, 2007 this sequence version replaced [gi:2134726](#), [gi:2134727](#), [gi:539596](#).  
 [FUNCTION] Enzyme involved in the biosynthesis of the E-Selectin ligand, sialyl-Lewis X. Catalyzes the transfer of fucose from GDP-beta-fucose to alpha-2,3 sialylated substrates.  
 [CATALYTIC ACTIVITY] GDP-beta-L-fucose + beta-D-galactosyl-(1->3)-N-acetyl-D-glucosaminyl-R = GDP + beta-D-galactosyl-(1->3)-(alpha-L-fucosyl-(1->4))-N-acetyl-beta-D-glucosaminyl-R.  
 [PATHWAY] Protein modification; protein glycosylation.  
 [SUBCELLULAR LOCATION] Golgi apparatus, Golgi stack membrane; Single-pass type II membrane protein. Note=Membrane-bound form in trans cisternae of Golgi.  
 [ALTERNATIVE PRODUCTS] Event=Alternative splicing; Named isoforms=2; Name=1; IsoId=P51993-1; Sequence=Displayed; Name=2; IsoId=P51993-2; Sequence=VSP\_001780.  
 [TISSUE SPECIFICITY] Kidney, liver, colon, small intestine, bladder, uterus and salivary gland.  
 [SIMILARITY] Belongs to the glycosyltransferase 10 family.  
 [WEB RESOURCE] Name=GGDB; Note=GlycoGene database; URL=<http://ggdb.muse.aist.go.jp/GGDB/index.jsp>.  
 FEATURES  
     source 1..359  
         /organism="Homo sapiens"  
         /db\_xref="taxon:9606"  
     gene 1..359  
         /gene="FUT6"  
         /note="synonym: FCT3A"  
     Protein 1..359  
         /gene="FUT6"  
         /product="Alpha-(1,3)-fucosyltransferase"  
         /EC\_number="2.4.1.65"  
     Region 1..359  
         /gene="FUT6"  
         /region\_name="Mature chain"  
         /experiment="experimental evidence, no additional details recorded"  
         /note="Alpha-(1,3)-fucosyltransferase."  
         /FTId=PRO\_0000221110."  
     Region 1..14  
         /gene="FUT6"  
         /region\_name="Topological domain"  
         /inference="non-experimental evidence, no additional details recorded"  
         /note="Cytoplasmic (Potential)."  
     Region 5..358  
         /gene="FUT6"